

WHAT IS CLAIMED IS:

1. A manufacturing method of a domain wall displacement type magneto-optical recording medium comprising the steps of:

- 5 depositing a magnetic layer on a substrate to
prepare a disc; and
 irradiating the magnetic layer with a converged
light beam while applying a magnetic field and
annealing the magnetic layer a converged light beam
10 between information tracks.

2. The manufacturing method according to
claim 1, wherein said magnetic field is parallel to
the direction of a scanning with said light beam in
15 the surface of said disc.

3. The manufacturing method according to
claim 2, wherein said magnetic fields have the same
magnitude and different polarity between those
20 applied to their respective information tracks
adjacent to each other.

4. The manufacturing method according to
claim 2, wherein said magnetic fields have the same
magnitude and same polarity between their respective
information tracks adjacent to each other.

5. The manufacturing method according to
claim 1, wherein said magnetic fields are
perpendicular to the disc surface and have the same
magnitude and different polarity between those
5 applied to their respective information tracks
adjacent to each other.

6. The manufacturing method according to
claim 1, wherein said magnetic fields are
10 perpendicular to the direction of a scanning with
said light beam in the surface of the disc, and have
the same magnitude and same polarity between those
applied to their respective information tracks
adjacent to each other.

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7. The manufacturing method according to
claim 1, wherein an intensity of said magnetic field
is not less than 50 Oe.

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8. The manufacturing method according to
claim 1, wherein said magnetic fields have its
polarity switched every one cycle of the disc.

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9. The manufacturing method according to
claim 1, wherein said magnetic fields have its
polarity switched several times in one cycle of the
disc.

10. The manufacturing method according to claim 9, wherein the area where the polarity is switched is an area other than a user data area.

5 11. A domain wall displacement type magneto-optical disc comprising:

a domain wall displacement layer in which a domain wall displaces;

10 a memory layer that holds a recording magnetic domain according to information;

a switching layer that is provided between the domain wall displacement layer and the memory layer and has a Curie temperature lower than that of those layers; and

15 a disconnecting area that is provided in the domain wall displacement layer and disconnects a switching connection between information tracks; wherein the polarity of a residual magnetization at a boundary between the information track and the 20 disconnection area is oriented in a certain direction.

12. The domain wall displacement type magneto-optical disc according to claim 11, wherein the direction of said residual magnetization is switched 25 in polarity at a predetermined cycle.

13. The domain wall displacement type magneto-

optical disc according to claim 12, wherein said switching occurs one cycle of the disc as an unit.